

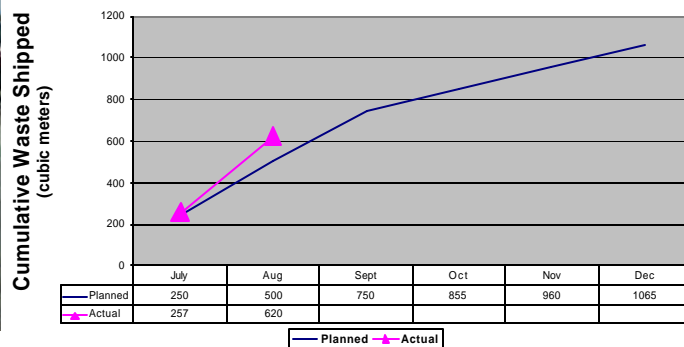
Waste Management Project

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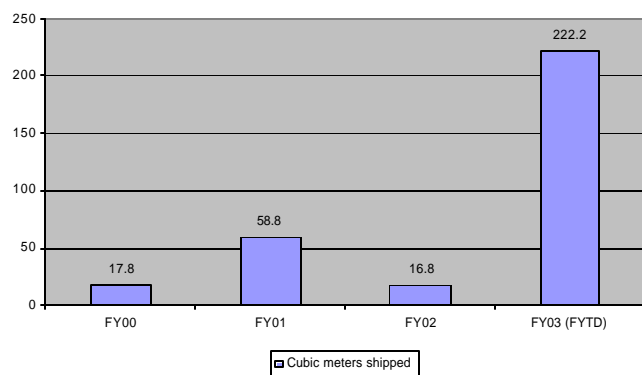
Waste Disposal Progress



183-H Basin Waste Shipments to ERDF



Hanford WIPP Shipping



INTRODUCTION

The Waste Management (WM) Project consists of Project Baseline Summary (PBS) RL-CP02, *200 Area Materials and Waste Management*, except for the Environmental Restoration Disposal Facility (ERDF), which is work scope managed by another Site contractor. Also included in this report are PBSs RL-RS01, *South Hanford Industrial Area*; RL-SC01, *Near Term Stewardship*; RL-SS03, *Groundwater Management and Monitoring*; and RL-SS04, *Groundwater Vadose Zone Integration*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of August 2003.

NOTABLE ACCOMPLISHMENTS

Transuranic (TRU) Waste Program Completed six shipments to the Waste Isolation Pilot Plant in August, bringing the fiscal year to date total to 231 cubic meters (m^3), versus 78 m^3 planned for FY 2003. The non-destructive assay and non-destructive examination Accelerated Processing (APL) Units are operational. Construction at 2404-WC continues and is scheduled to complete near the end of September 2003. The APL head space gas (HSG) unit is scheduled to arrive the week of September 15, 2003. FH has established the ability to send HSG SUMMA canisters to the Idaho National Environmental and Engineering Laboratory for analysis. FH completed characterization efforts for Plutonium Finishing Plant mixed-oxide Lot #1 (195 pipe-overpack containers).

Mixed Low Level Waste (MLLW) Treatment: Completed shipments totaling 363 m^3 of 183 H Basin waste to the ERDF in August. This waste stream represents approximately 60% (3,730 m^3 or 12,300 containers) of currently stored MLLW at the Central Waste Complex (CWC). Twenty to twenty-four MLLW shipments a month are currently being scheduled, dependant on the availability of resources and funding. A total of 462 m^3 of MLLW was treated and disposed of in August, bringing the fiscal year to date total to 1,445 m^3 .

Liquid Waste Processing: The 200 Area Effluent Treatment Facility treated 1.3 million gallons of Operable Unit UP-1 groundwater and ERDF leachate. The 300 Area Treated Effluent Disposal Facility treated and disposed of 4.1 million gallons of industrial wastewater, supporting cleanout of several 300 Area facilities.

Groundwater Remediation: Completed decommissioning 61 percent (35 of 57) of the wells in the initial well decommissioning contract. Fifty-one of the 153 wells for inclusion into a second decommissioning contract have been identified.

200 Area Waste Site Remedial Actions: Completed the U Plant Closure Area Waste Sites Confirmatory Data Quality Objectives. The Data Quality Objectives establishes sampling requirements for the Waste Sites, and supports preparation of a Sampling and Analysis Plan.

FY 2003 SCHEDULE/COST PERFORMANCE (\$000)

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
RL-CP02 200 Area Materials & Waste Mgm't	\$101,912	\$96,761	\$94,637	(\$5,151)	-5.1%	\$2,124	2.2%	\$114,420
RL-RS01 South Hanford Industrial Area Clean Up	\$227	\$207	\$206	(\$20)	-8.9%	\$1	0.6%	\$253
RL-SC01 Near Term Stewardship Groundwater	\$2,235	\$2,206	\$1,908	(\$29)	-1.3%	\$298	13.5%	\$2,482
RL-SS03 Mgm't & Monitoring Groundwater /	\$19,321	\$17,081	\$15,517	(\$2,240)	-11.6%	\$1,564	9.2%	\$21,445
RL-SS04 Vadose Zone Protection	\$2,947	\$2,863	\$2,701	(\$84)	-2.9%	\$162	5.7%	\$3,181
Total Waste Management	\$126,642	\$119,118	\$114,969	(\$7,524)	-5.9%	\$4,149	3.6%	\$141,782

Schedule Performance: The PBS CP02 unfavorable (\$-5,151K/-5.1%) schedule variance is primarily the TRU Retrieval Safety Evaluation Report (SER) approval and Drum Vent System (DVS) being delayed. They are delayed due to Master Documented Safety Analysis (MSDA) technical issues for the SER, and lack of bidders for the DVS. The SER was approved in late June, and the DVS mobilization occurred in late August.

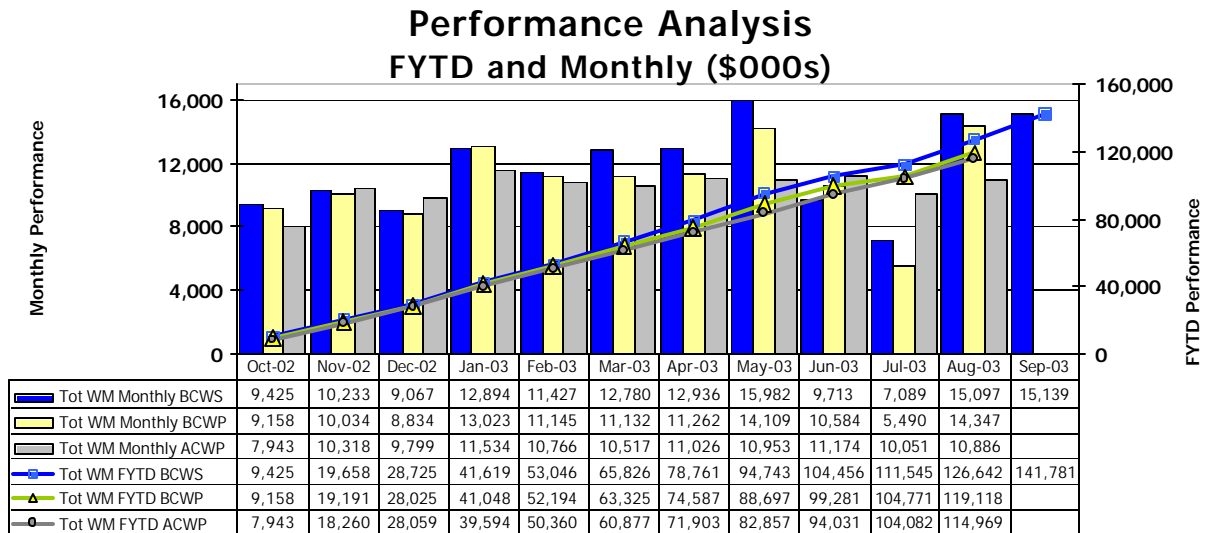
The receipt of the sludge from K Basin is behind due to delays in preparation of the readiness assessment. Fuel removal has been delayed to FY 2004 to accommodate sludge receipt. Also delays in T Plant Legacy Waste cleanup and the fan repair have occurred. The shallow trench development has been deferred to FY 2004 due to no Record of Decision/Environmental Impact Statement decision. The CWC fire deficiency upgrades and the purchase of forklifts are behind due to finalization of work scope.

The PBS SS03 unfavorable variance (\$-2,240K/-11.6%) is the result of a delay in selection of groundwater remediation treatment options, delay in award of a well decommissioning contract, and delays in the Modutank closure due to delays in Regulator approval of the remediation plan. Work scope will be carried forward into FY 2004.

Cost Performance: The PBS CP02 favorable cost variance of \$2,124K/2.2% is primarily the result of cost efficiencies that have been achieved in the 200 Area Liquid Effluents and Program Management. Also, the current 183 H Basin Waste shipments for disposal at ERDF have not required treatment before disposal as originally planned, causing the unit rate for disposal to be significantly lower. Waste requiring treatment will be shipped to ERDF starting in FY 2004. The favorable variance will be utilized to offset overruns in the sludge receipt readiness and TRU Retrieval.

The favorable variance is offset by unfavorable variances in the Solid Waste Pool where waste volumes have been lower than planned for both on-site and off-site, thus causing an under-liquidation of the solid waste pool costs. The under-liquidation will be charged back to the customers, thus eliminating this variance at yearend. Sludge receipt costs have been higher than planned because of the cost to recover from a crane incident in January, and readiness assessment preparation. The TRU Retrieval overrun is due to the Documented Safety Analysis implementation cost for the SER requirements and the purchase of the DVS versus the original plan to lease.

FY 2003 SCHEDULE/COST PERFORMANCE, CONT'D



Cost efficiencies of \$1,564K/9.2% have been achieved in PBS SS03 in the labor for pump and treat activities, reduced sampling for well drilling, and lower material and labor costs for the 200-ZP-1 facility work.

MILESTONE ACHIEVEMENT

Number	Milestone Title	Type	Due Date	Forecast Date	Status/Comment
M-15-39A	Complete Chemical Sewer Group Field Work Through Sample Collection and Analysis	TPA	9/30/2003	9/30/2003	The final report and TPA completion letter are in concurrence routing for delivery to RL by 9/30/03
TRP-03-403	Optimization Plan for the Closure of the Central Plateau	RL	9/30/2003		On Schedule
M-13-00N	Submit 1 200 NPL RI/FS (RFI/CMS) Work Plan	TPA	12/31/2003		On Schedule
M-24-000	Install RCRA Groundwater Monitor Wells at Rate of up to 50 in CY 2003, if required	TPA	12/31/2003		On Schedule
M-13-00N	Submit 1 200 NPL RI/FS (RFI/EMS) work plan for the 200-UR-1, unplanned releases	TPA	12/31/2003	6/30/2004	Being renegotiated to account for innovative work plan. TPA change package has been drafted and submitted with a notification letter on 9/12/03
M-91-22	T Plant ready to rec. Canister & fuel wash sludge from K Basin	TPA	2/29/2004	2/29/2004	Letter to RL drafted recommending milestone deletion
M-26-07A	Submit Evaluation of Status of Development of Tritium Treatment Technology	TPA	3/31/2004	3/31/2004	On schedule
M-26-01N	Submit Annual Hanford LDR Report	TPA	4/30/2004	4/30/2004	On schedule
M-91-07	Complete W-113 for Post 1970 CH TRU / TRUM Retrieval	TPA	9/30/2004	TBD	TPA renegotiation ongoing
M-016-66	Initiate Intermediate Design and Authorization Safety Analysis for Remedial Actions at the 618-10 and 618-11 Burial Grounds	TPA	9/30/2004		On Schedule
M-91-12A	Treat 240 Cubic Meters by 12/31/2004	TPA	12/31/2004	TBD	Letter of completion submitted to RL (treatment equivalency)

NOTE: M-91-12A reflects a due date of December 31, 2002 in the FH Central Milestone Module; however Ecology sent a January 6, 2003, letter to RL extending the due date to December 31, 2004, which will be reflected in future baseline updates.

FY 2003 FH FUNDS VS. FORECAST (\$000)

	Expected Funds	Spend Forecast	Variance
RL-CP02 Waste Management			
Project Completion - Operating	\$ 111,450	\$ 108,829	\$ 2,621
RL-RS01 South Hanford Industrial Area	\$ 305	\$ 238	\$ 67
RL-SC01 Near Term Stewardship	\$ 2,393	\$ 2,111	\$ 282
RL-SS03 Groundwater Management & Monitoring	\$ 20,289	\$ 18,279	\$ 2,010
RL-SS04 Groundwater Vadose Zone Integration	\$ 3,217	\$ 3,047	\$ 170
Post 2006 - Operating	\$ 26,204	\$ 23,675	\$ 2,529
Total	\$ 137,654	\$ 132,504	\$ 5,150

ISSUES

Waste Management Performance on Lock-out/Tag-out: Initiated procedures and controls for the lock-out/tag-out program which results in and reflects a zero-tolerance level of lock and tag violations. An independent check of personnel training records to validate qualifications was completed. Individuals accountable for lock and tag have been identified, and briefings with all management on the expectations for control of hazardous energy and the significance of individual performance are underway. Additional briefings are planned for all personnel involved in the program. The expected completion date is September 30, 2003.

Receipt of an Administrative Order on Washington Hazardous Waste Management Act and Dangerous Waste Regulation: Significant acceleration of retrieval, designation, treatment and certification of MLLW and TRU waste is required. The stay was extended until October 1, 2003, for section II.C.ii. The draft Sampling and Analysis Plan for burial ground 218-W-4C was completed and transmitted to the U.S. Department of Ecology (Ecology) on August 12, 2003. A change package was approved to change the August 31, 2003, milestone date for submission of the TRU/TRU mixed waste Project Management Plan to December 31, 2003. Negotiations continue between RL and Ecology on a proposed change package and settlement agreement. The agreements will include suspect TRU retrieval milestones that will be difficult to meet and fundamentally changes the current planning basis for retrieval. RL direction on implementing the draft change package is expected by October 1, 2003. Until negotiations are concluded, the terms of the order remain in effect and are difficult, if not impossible, to meet based on current and planned waste retrieval, designation, treatment and certification capabilities for MLLW and TRU waste. Significant impacts include needing additional funding above the current baseline to execute this new work scope, plus the risk of being subject to enforcement by Ecology if the terms are not met.